

LEASABLE ELECTROSTATIC PRINTER

1979

FIRST CLASS MAIL

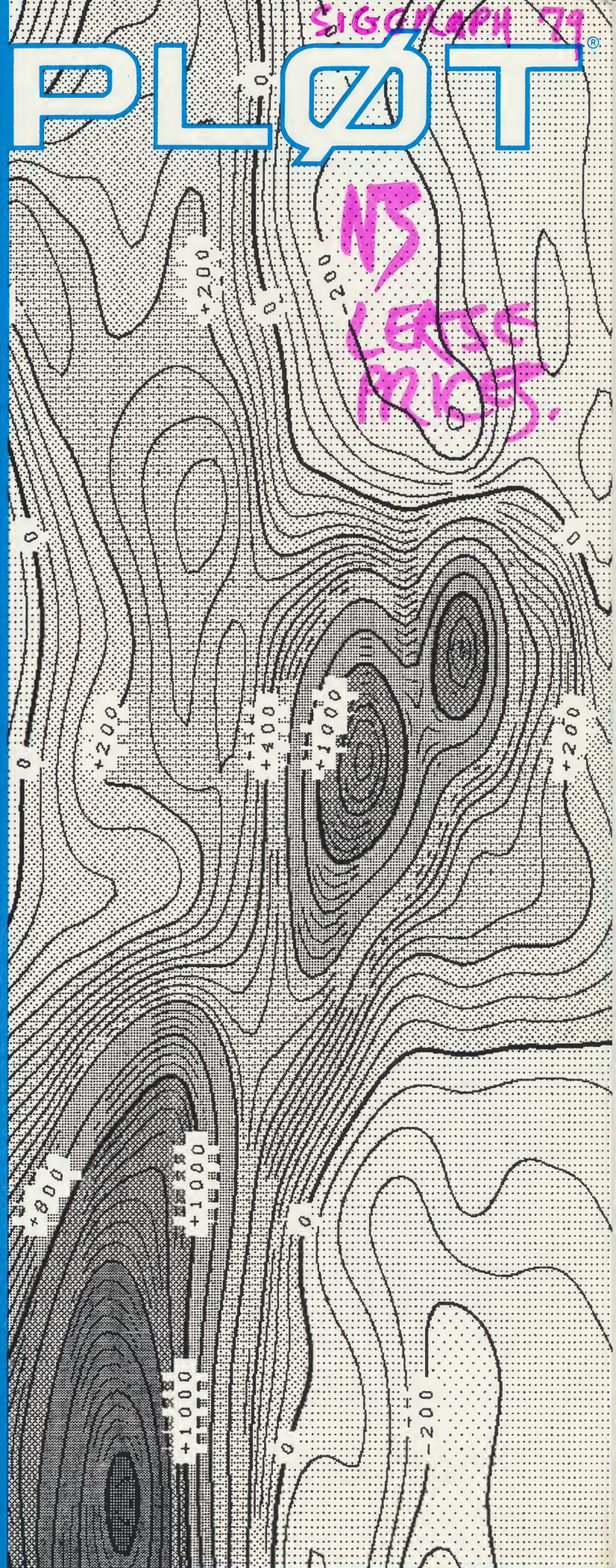
17c. Teo Nelson

Box 128

SWARTHMORE, PA 19081

CØMPLØT

8400 SERIES
ELECTROSTATIC
PRODUCTS
CATALOG



CØMPLØT®

The Houston Instrument 8400 Series Plotters and Plotter/Printers represent a dramatic improvement in price and performance for electrostatic type graphics over others currently available. The ability to present either free form graphics or alphanumeric data quickly for the user at a low cost is the forte of the 8400 Series. It can function either as a fast line printer or a fast plotter.

The Houston Instrument 8400 Series Plotters and Plotter/Printers utilize a field proven, low cost, electrostatic writing technique. It was selected because:

- Absence of the shock noise and clatter associated with impact printers.
- Elimination of the high purchase and maintenance costs associated with hammers, balls, bars, drums, pins, and needles associated with mechanical impact printing systems.
- There are no moving parts and no messy ribbons to change with electrostatic printing.
- Inherent high speed and high reliability due to its mechanical simplicity.



No. 1 Printed
Circuit Board

No. 2 Printed
Circuit Board



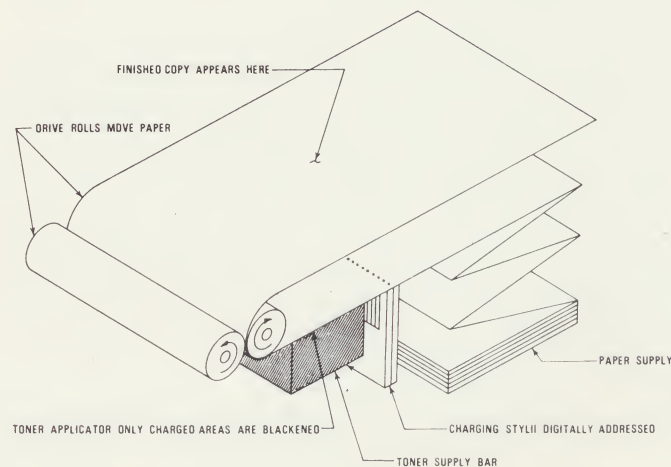
End on View of
Physical Stylus Layout



Resultant Printing If All Styli
Are Used To Write A Line

HOW IT'S DONE

The 8400 Series Plotters utilize a low cost electrostatic printing method that features a double row of styli to provide high quality graphics. They work in the following way: An electrostatic charge is transferred to the top surface of the paper via the styli where marks are desired on the paper. The paper is then pulled over a toner bar where carbon particles are attracted to the charged areas of the paper by the electrostatic attraction forces. Finally, the excess toner particles and their carrier are removed leaving a finished permanent plot. A proven technique that has been used since 1976 in Houston Instrument's 8200 Series Line Printers.



For Digital Graphics at its Best. . .

TECHNICAL DATA

Marking Method	Deposition of Carbon Particles via Electrostatic Attraction	Plot Width	8.0 inch Model 8411, 10.56 inch Model 8421
Paper Motion	Incremental	Plot Speed	2.0 inches/sec. Model 8411, 1.5 inches/sec. Model 8421
Paper Type	Fan-Fold or Roll	Paper Advance Speed	4.0 Inches Per Second
Toning Method	Closed Loop	Operating Temperature	5°C to 40°C
Toner Supply	4 Quarts	Operating Humidity	20% to 95% Relative at 25°C Dry Bulb (Without Condensation)
Toner Usage	Approximately 1 Pint/5,000 Feet of Paper	Physical Size	27 inches (68.6 cm) Wide 14 inches (35.6 cm) High 20¼ inches (51.4 cm) Deep
Manual Controls	Off/On, Slew, Top of Form, Online, Roll/Fan-Fold, Contrast, Self Test	Mounting	Table Top (Pedestal —002 Option)
End of Paper Sensor	Supplied as a standard item.	Weight Net	83 Pounds (38 Kilograms)
Indicators, Status	Off/On, Online	Weight Shipping	105 Pounds (48 Kilograms)
Paper Width	8½ inch Model 8411, 11 inch Model 8421	Input Power	Selectable 115V or 230V ±10V 50/60 Hz @ 250 Volt-amperes
Styli Count	800 Model 8411, 1056 Model 8421		
Styli Configuration	All Are Dual Array		

TONING SYSTEM

The liquid toning system will provide a uniformly printed, high contrast, dry copy in a short period of time. The liquid toner consists of carbon particles suspended in a synthetic hydrocarbon called Isopar.

The toner is applied to the paper utilizing slots in the toner bar with the toner flowing from one crosswise slot to the next. No flow of toner can occur until these slots are covered by the paper. The paper closes the suction loop of the pump, neatly eliminating the problem of spilled toner in the case of either running out of paper or accidentally tearing the paper, since the toner flow stops automatically if the suction seal is lost.

The toner tank is easily filled and can be removed in less than five minutes. It is a lot easier to replenish toner in this device than it is to change a ribbon in an impact printer or load an india ink pen in a pen plotter.



EASY LOAD TONER TANK

CØMPLØT®

PRINTER OPTION "A" MODELS ONLY (See Backpage)

Character Set Size	96 ASC II Standard
Matrix	7 X 9
Characters/Inch	12.5
Columns/Line	100 Model 8411A, 132 Model 8421A
Print Speed	960 LPM Model 8411A, 720 LPM Model 8421A

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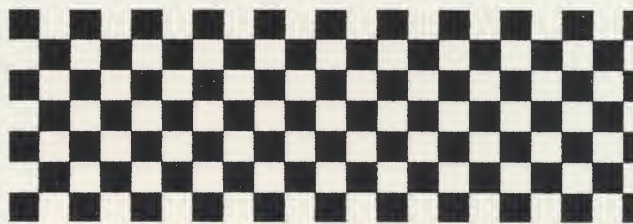
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8400 SAMPLE PRINT OUT

SELF TEST

The 8400 Series has a self test feature. In the unlikely event that a problem is encountered, the self test feature allows a pattern to be plotted without connection to the interface and the host computer. This ability greatly reduces the time required to isolate a problem.

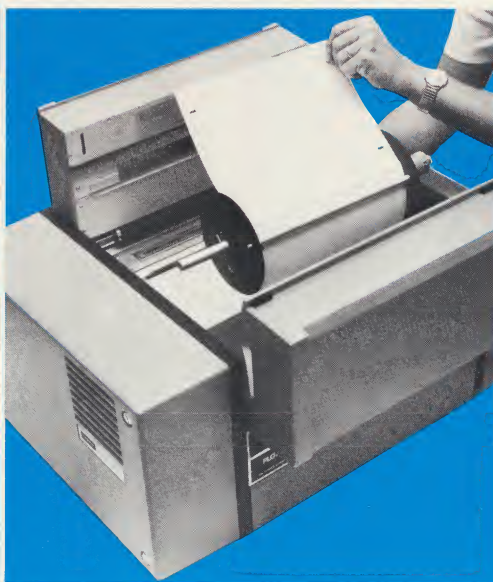


8400 TEST PLOT

ADDITIONAL DETAILED INFORMATION

Contact your local office or Houston Instrument for Technical Information Bulletins on the following:

- Plotting — Pen Verses Electrostatic
- Designer's Guide to Interfacing the 8400 Series Plotters
- Electrostatic Paper



PAPER LOADING SEQUENCE - SIMPLE & FAST!!

CØMPLØT[®]

ELECTROSTATIC PLOTTERS AND PLOTTER/PRINTERS		PURCHASE PRICE	RENTAL/PURCHASE OPTIONAL PRICE*
Model 8411	Houston Instrument Plotter, 8½ inch wide paper, 100 Dots/Inch, 2 IPS Plotting Speed, and Table Top Mounting	\$5150.00	\$257.50 mo.
Model 8411A	Same as above with a simultaneous plot/print option. Prints 7 X 9 dot matrix, 96 ASCII Character set at 960 lines per minute	\$5650.00	\$282.50 mo.
Model 8421	Houston Instrument Plotter, 11 inch wide paper, 100 Dots/Inch 1.5 IPS Plotting speed, and Table Top Mounting	\$5475.00	\$273.75 mo.
Model 8421A	Same as above with a simultaneous plot/print option. Prints 7 X 9 dot matrix, 96 ASCII character set at 720 lines/minute.	\$5975.00	\$298.75 mo.

Each plotter is supplied with 1 quart T-510 dispersant, 1 bottle T-505 concentrate, mating connector, 5 quarts of T-500 Pre—Mixed Toner Fluid, Operation and Maintenance Manual, and two rolls of paper.

OPTIONS		PURCHASE PRICE	RENTAL/PURCHASE OPTION PRICE*
002	Pedestal option with paper basket to make Plotter or Plotter/Printer free standing	\$325.00	\$16.25
CPE—84—271	Versatec Stub Cable	\$ 65.00	\$ 3.25

ELECTROSTATIC SUPPLIES

Part Number	Description	Price
C-1500	Roll** Paper	8½ inch by 500 ft. \$14.00
C-1501	Perforated Roll** Paper	8½ inch by 11 inch by 500 ft. \$15.00
C-1505	Fan Fold Paper	8½ inch by 11 inch-1000 sheets \$30.00
C-1525	Roll** Paper	11 inch by 500 ft. \$18.00
C-1526	Perforated Roll** Paper	11 inch by 8½ inch by 500 ft. \$19.50
C-1530	Fan Fold Paper	11 inch by 8½ inch-1000 sheets \$30.00
T-500	Pre-Mixed Toning Fluid	Quart Bottle \$ 3.00
T-505	Toning Concentrate	8 oz. \$ 7.50
T-510	Clear Dispersant	Quart Bottle \$ 2.50

All prices are F.O.B. Austin, Texas. Terms are net 30 days.

* Please refer to rental contract for details including purchase option. Note that rental prices may be higher for locations more than 25 miles from a Field Sales Office.

** All orders must be in multiples of 2 rolls.

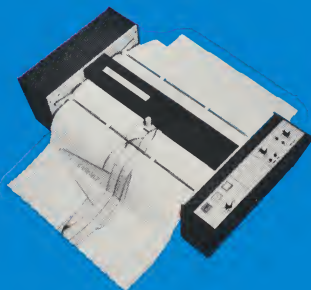
houston instrument



8400 Series Electrostatic Products



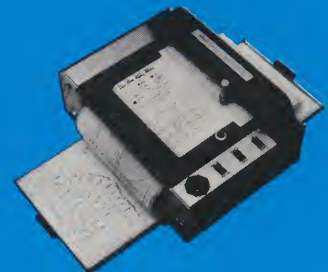
DP-8 36" Drum Plotter



DP-3 22" Drum Plotter

HOUSTON INSTRUMENT

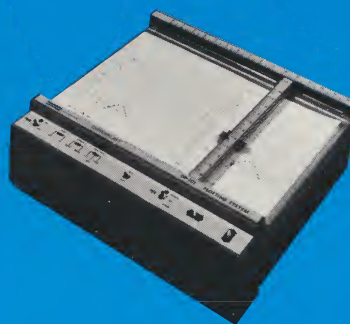
Houston Instrument, a division of Bausch and Lomb, Inc., has been manufacturing digital plotters since 1967. We first introduced an electrostatic printer in 1976; now we've introduced the electrostatic plotter, plotter/printers, and CRT copiers to broaden our offerings in the computer graphics market. We also offer both electromechanical pen plotters and electrostatic plotters. Why? There are many applications for which only one or the other is really "right." We have no axe to grind as to the technology used. Give us a call, we'll look at your graphics application and help you decide which is best for your needs. Houston Instrument is THE plotter company.



DP-11 11" Highspeed Drum Plotter



PTC-5A Plotter Controller



DP-101 Plotting System



MTR Magnetic Tape Readers

**houston
instrument**

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(512) 837-2820

EUROPEAN HEADQUARTERS Rochesterlaan 6 8240 Gistel Belgium
Phone 059/277445 Telex Bausch 81399

"the graphics-recorder company"

DIVISION OF **BAUSCH & LOMB**

AUSTIN, TEXAS 78753
TWX 910-874-2022

Represented By

☐ Please have your representative call:

Telephone () _____ Ext. _____

My primary job responsibility is:

☐ Engineer ☐ Engineering Mgt. ☐ Gen. Mgt. ☐ Other _____

☐ Please add my name to your mailing list.

☐ My address is correct as shown ☐ Please correct to:

Mr. T. Nelson D-4
Systems Consultant
Box 1546
Poughkeepsie, NY 12603

Signature _____ Date _____

My company's major products/services are:

We have (No.) _____ engineers at this location.

Our possible computer application is for:

We presently handle such problems by:

☐ Calculator ☐ Slide rule ☐ Hand arithmetic ☐ Other _____

☐ Small computer in department. Type? _____

☐ Large computer installation. Type? _____

☐ Outside computer service. Type? _____ Other _____

We are considering the use of a computer:

☐ Now ☐ Within a year ☐ Sometime in the future

We are a:

☐ R&D lab

☐ Educational institution

☐ Manufacturer

☐ Rep/Jobber/Dealer

☐ Gov't agency

☐ _____